ELSEVIER

Global and Planetary Change 33 (2002) 361–362

GLOBAL AND PLANETARY CHANGE

www.elsevier.com/locate/gloplacha

Contents Volume 33, 2002

SPECIAL ISSUE

THE GLOBAL CARBON CYCLE AND ITS CHANGES OVER GLACIAL-INTERGLACIAL CYCLES

Edited by: Louis François, Hugues Faure and Jean-Luc Probst

Editorial vii

Carbon cycle during the last 315,000 years: reconstruction from a marine carbon cycle model
T. Ikeda, E. Tajika and R. Tada 1

Glacial–interglacial carbonate preservation records in the Nordic Seas
J.P. Helmke and H.A. Bauch 15

Carbon flux during the last interglacial cycle in the inner continental shelf of the South China Sea off Hong Kong
W.W.-S. Yim, L.S. Chan, M. Hsieh, R.P. Philp and W.N. Ridley Thomas 29

The coastal oasis: ice age springs on emerged continental shelves
H. Faure, R.C. Walter and D.R. Grant 47

A mass balance of carbon stable isotopes in an organic-rich methane-producing lacustrine sediment (Lake Bled, Slovenia)
N. Ogrinc, S. Lojen and J. Faganeli 57

A revised high-resolution oxygen-isotope chronology for ODP-668B: implications for Quaternary biomass burning in Africa
M.I. Bird and J.A. Cali 73

Mapping the total organic carbon in the soils of the Congo
D. Schwartz and M. Namri. 77

Carbon isotopes in charcoal and soils in studies of paleovegetation and climate changes during the late Pleistocene and the Holocene in the southeast and centerwest regions of Brazil
S.E.M. Gouveia, L.C.R. Pessenda, R. Aravena, R. Boulet, R. Scheel-Ybert, J.A. Bendassoli, A.S. Ribeiro and H.A. Freitas 95

Carbon storage increases by major forest ecosystems in tropical South America since the Last Glacial Maximum and the early Holocene
H. Behling 107

Biospheric carbon stocks reconstructed at the Last Glacial Maximum: comparison between general circulation models using prescribed and computed sea surface temperatures
D. Otto, D. Rasse, J. Kaplan, P. Warnant and L. François 117

Modelled glacial and non-glacial HCO_3^-, Si and Ge fluxes since the LGM: little potential for impact on atmospheric CO_2 concentrations and a potential proxy of continental chemical erosion, the marine Ge/Si ratio
I.W. Jones, G. Munhoven, M. Tranter, P. Huybrechts and M.J. Sharp 139

Glacial–interglacial changes of continental weathering: estimates of the related CO_2 and HCO_3^- flux variations and their uncertainties
G. Munhoven 155

Role of karstic dissolution in global carbon cycle
P. Gombert 177

Carbon degassing from the lithosphere
N.-A. Mörner and G. Etiope 185

SPECIAL ISSUE

LATE QUATERNARY CLIMATE CHANGE IN THE NEW ZEALAND REGION

Edited by: J. Shulmeister and J. Dodson

Editorial 205

A multi-millennial palaeoclimatic resource from *Lagarostrobos colensoi* tree-rings at Oroko Swamp, New Zealand
E.R. Cook, J.G. Palmer, B.I. Cook, A. Hogg and R.D. D'Arrigo 209
Tephrostratigraphy and geochronology of a ca. 120 ka terrestrial record at Lake Poukawa, North Island, New Zealand
P. Shane, O.B. Lian, P. Augustinus, R. Chisari and H. Heijnis 221
Glaciations, interglaciations and reworked microfossils in Poukawa Basin, New Zealand
M.A. Harper and J.D. Collen 243
Phytolith analysis and paleoenvironmental reconstruction from Lake Poukawa Core, Hawkes Bay, New Zealand
J.A. Carter 257
Vegetation changes and their climatic implication for the late Pleistocene at Lake Poukawa, Hawkes Bay, New Zealand
M. Okuda, J. Shulmeister and J.R. Flenley 269
A Holocene and latest Pleistocene pollen record from Lake Poukawa, Hawke's Bay, New Zealand
M.S. McGlone 283
Quaternary vegetation and climate changes on Banks Peninsula, South Island, New Zealand
J.M. Soons, N.T. Moar, J. Shulmeister, H.D. Wilson and J.A. Carter 301
Late Glacial beech forest: an 18,000–5000-BP pollen record from Auckland, New Zealand
A.K. Lancashire, J.R. Flenley and M. Harper 315
A dated pollen record of vegetation change on Mayor Island (Tuhua) throughout the last 3000 years
L. Empson, J. Flenley and P. Sheppard 329
Source, sea level and circulation effects on the sediment flux to the deep ocean over the past 15 ka off eastern New Zealand
L. Carter, B. Manighetti, M. Elliot, N. Trustrum and B. Gomez 339

Author Index, Volume 33 357

Contents Volume 33, 2002 361